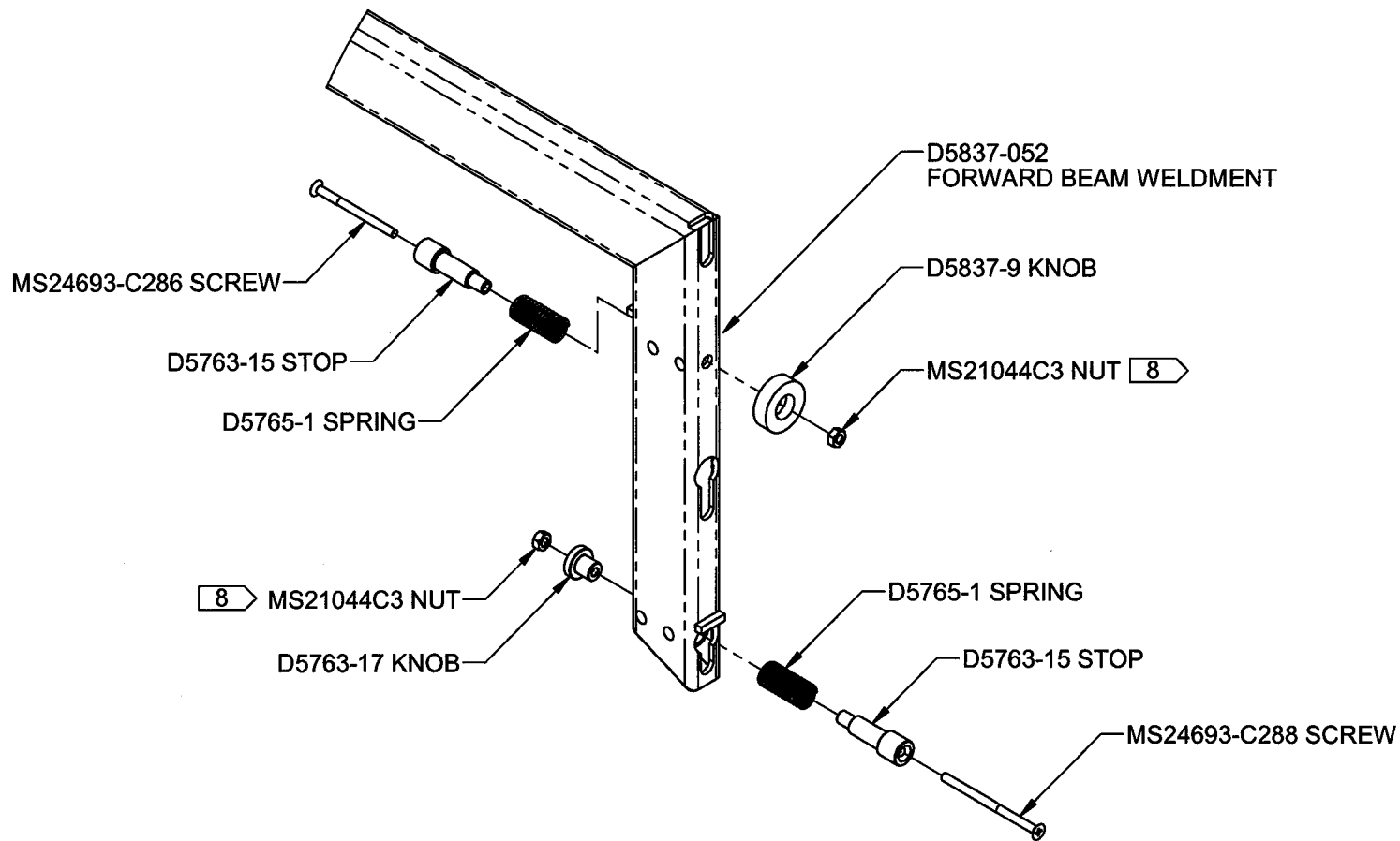


QTY -042	P/N	DESCRIPTION
X	D5837-042	FORWARD BEAM ASSEMBLY
1	D5837-052	FORWARD BEAM WELDMENT
1	D5837-9	KNOB
2	D5763-15	STOP
1	D5763-17	KNOB
2	D5765-1	SPRING
2	MS21044C3	NUT, SELF-LOCKING
1	MS24693-C286	SCREW, COUNTERSUNK
1	MS24693-C288	SCREW, COUNTERSUNK



DETAIL A
SCALE 1.25X

D5837-042 FORWARD BEAM ASSEMBLY
(DERIVED FROM AERO DESIGN P/N 69830-02)

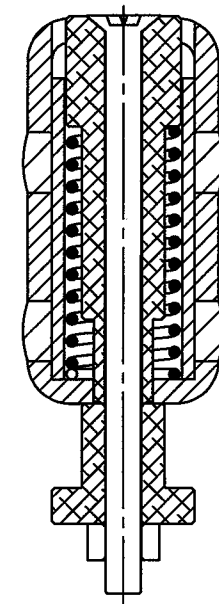
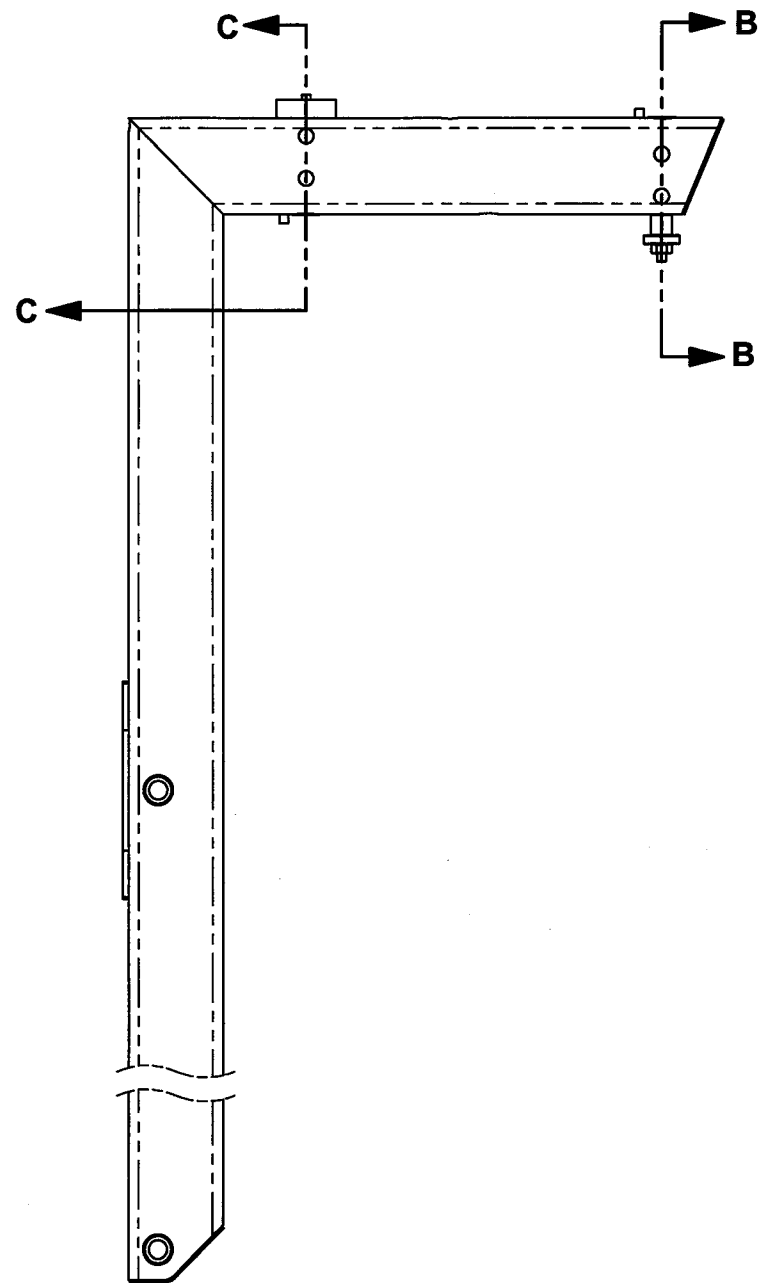
- NOTES:
1) MATERIAL: N/A
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: PER DART QSI 044
7) WEIGHT: 9.93 lbs
8) TORQUE TO 12-15 IN-LBS

RELEASED

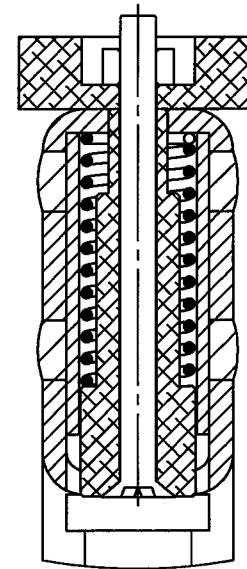
2021 MAY 07
HSECR 21-137

APPROVED

B	SHT 4: UPDATE WELDS ON D5763-11. SHT 6: ZNC5 AND C2 REMOVE UNNECESSARY KEYWAY DIMENSIONS. SHT 7: NOTE 1 ADD ALTERNATE MATERIAL, ADD CHAMFER. SHT 9 NOTE 2 CHANGE FINISH TO ANODIZE	JC	20.11.27
A	NEW ISSUE	KPT	20.01.27
REV.	DESCRIPTION	BY	DATE
DESIGN	KPT	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JC		
CHECKED	ZF	DRAWING NO.	REV. B
MFG. APPR.	DD	D5837	SHEET 1 OF 11
APPROVED	CP	TITLE	SCALE
DE APPR.	CP	FORWARD BEAM ASSEMBLY	NTS
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SECTION B-B
SCALE 4X



SECTION C-C
SCALE 4X

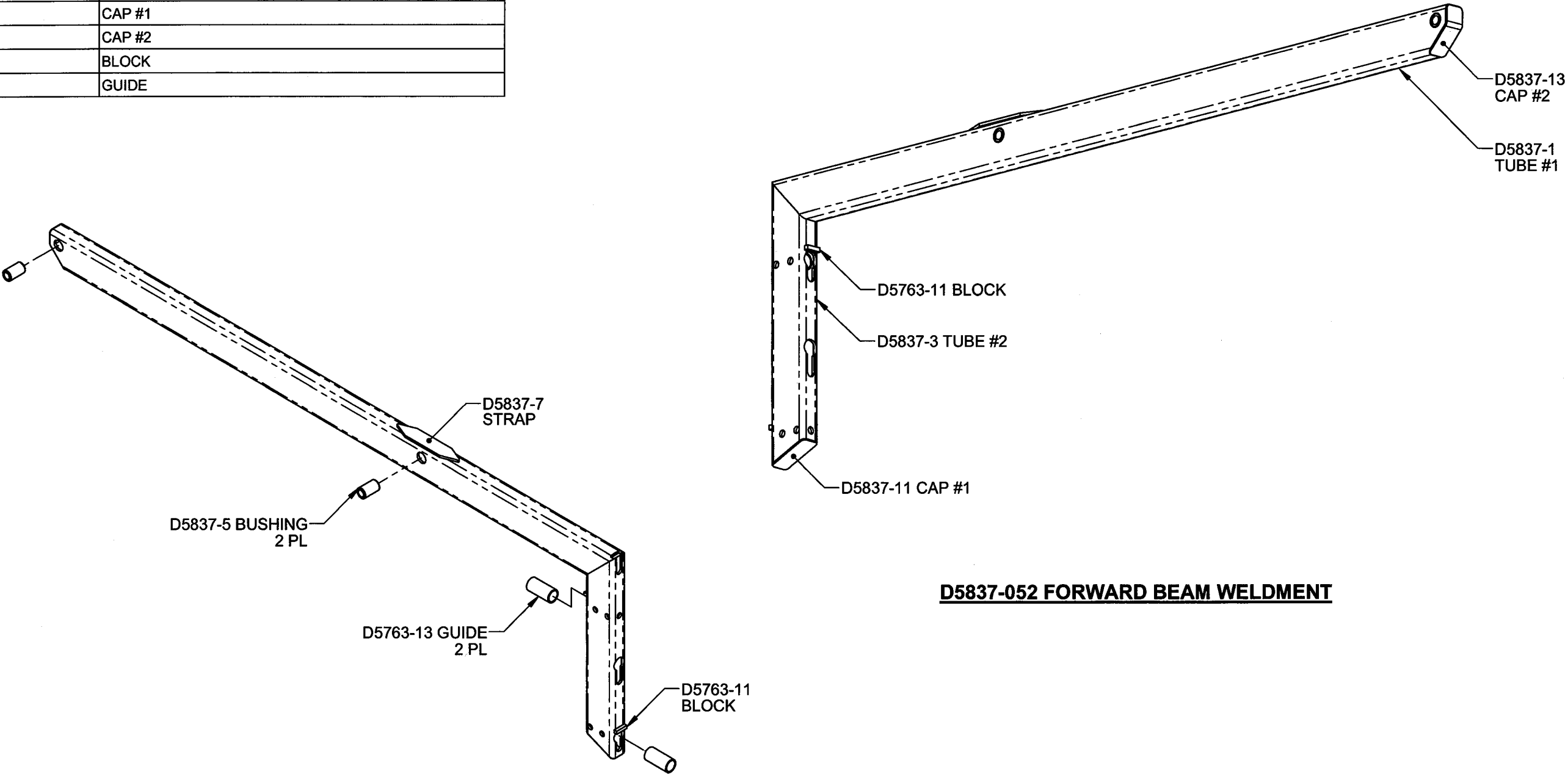
RELEASED

2021 MAY 07 *CP*

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DESIGN	KPT	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JC		
CHECKED	ZF	DRAWING NO.	REV. B
MFG. APPR.	DD	D5837	SHEET 2 OF 11
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DE APPR.	CP <i>CP</i>	FORWARD BEAM ASSEMBLY	NTS
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QTY -052	P/N	DESCRIPTION
X	D5837-052	FORWARD BEAM WELDMENT
1	D5837-1	TUBE #1
1	D5837-3	TUBE #2
2	D5837-5	BUSHING
1	D5837-7	STRAP
1	D5837-11	CAP #1
1	D5837-13	CAP #2
2	D5763-11	BLOCK
2	D5763-13	GUIDE

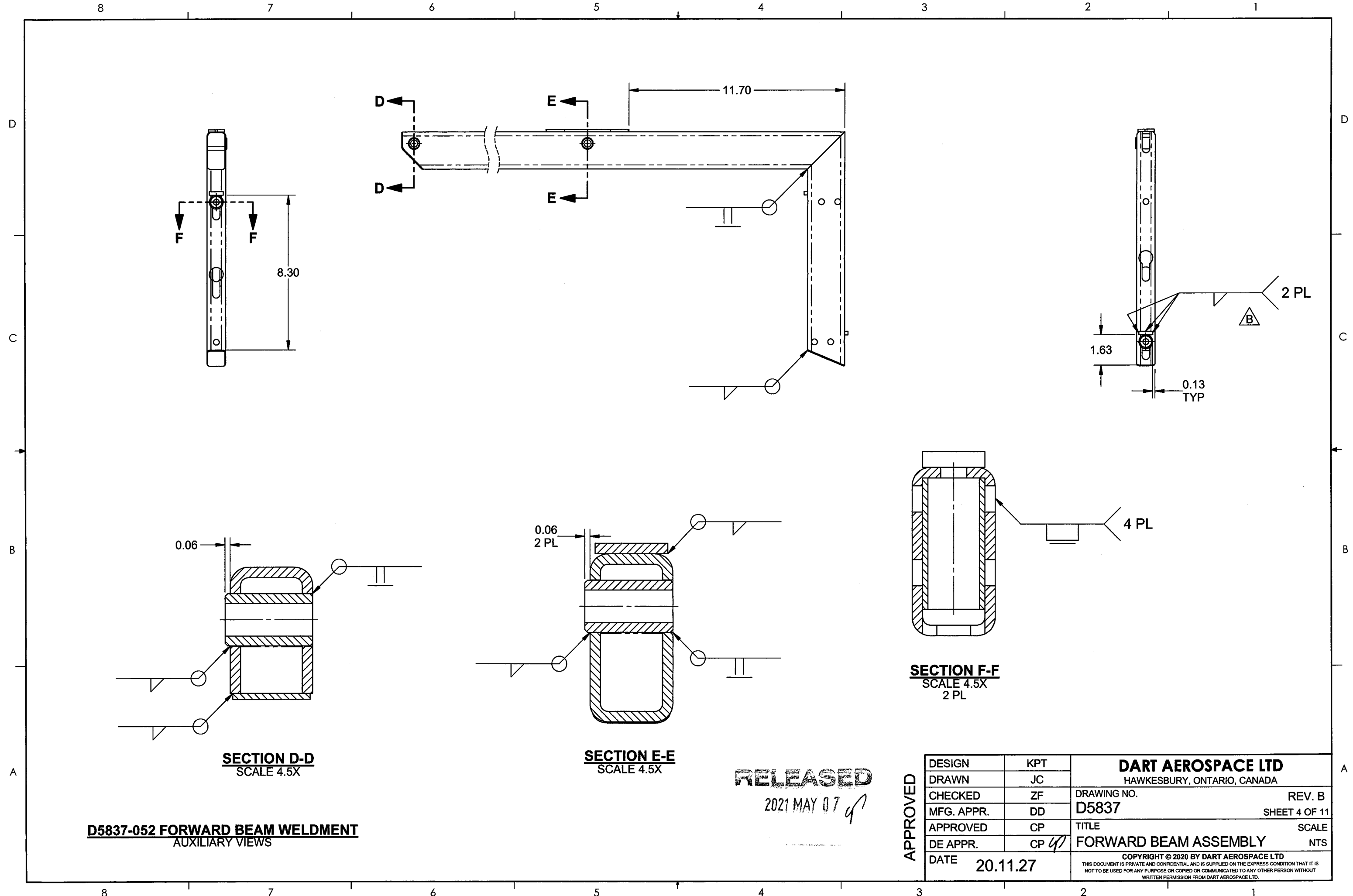


NOTES:
1) MATERIAL: N/A
2) FINISH: WHITE GLOSS POWDER COAT PER DART QSI 005 SECTION 4.3
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: PER DART QSI 044
7) WEIGHT: 9.74 lbs
8) WELD PER DART QSI 004. IT IS PERMISSIBLE TO BUFF OR GRIND TO CLEAN UP WELDS

RELEASED
2021 MAY 07

APPROVED

DESIGN	KPT	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JC		
CHECKED	ZF	DRAWING NO. D5837	REV. B
MFG. APPR.	DD		SHEET 3 OF 11
APPROVED	CP	TITLE	SCALE
DE APPR.	CP <i>41</i>	FORWARD BEAM ASSEMBLY	NTS
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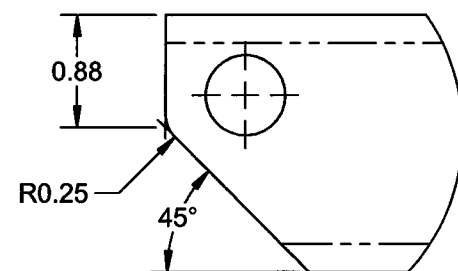


D5837-052 FORWARD BEAM WELDMENT
AUXILIARY VIEWS

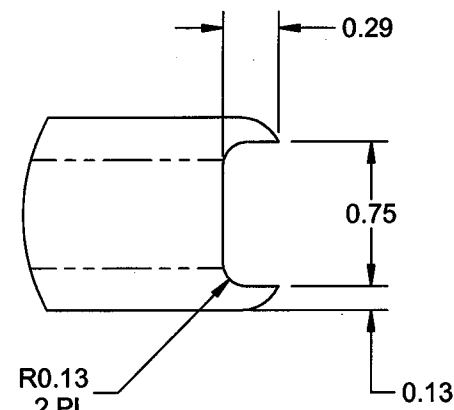
RELEASED
2021 MAY 07

APPROVED

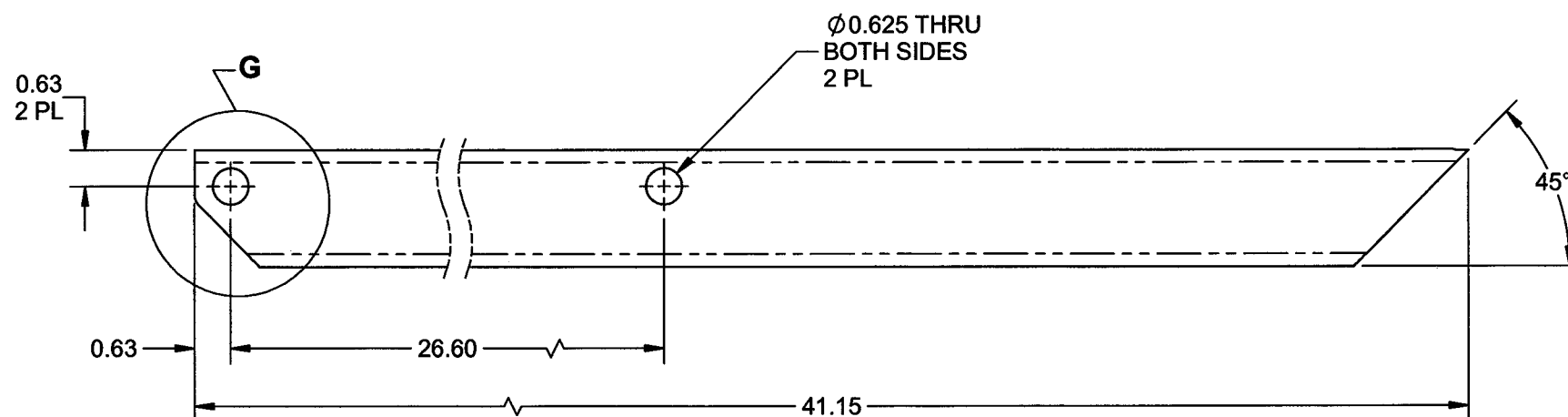
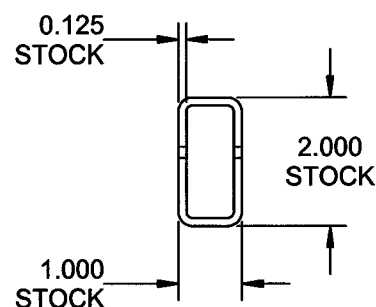
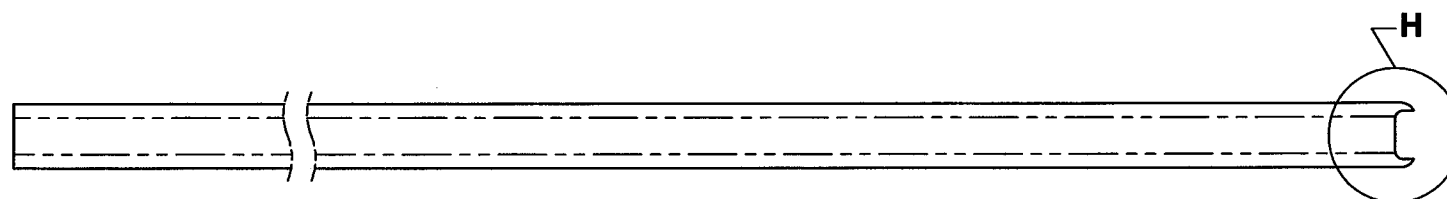
DESIGN	KPT	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JC		
CHECKED	ZF	DRAWING NO.	REV. B
MFG. APPR.	DD	D5837	SHEET 4 OF 11
APPROVED	CP	TITLE	SCALE
DE APPR.	CP	FORWARD BEAM ASSEMBLY	NTS
DATE	20.11.27	COPYRIGHT © 2020 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



DETAIL G
SCALE 2X



DETAIL H
SCALE 2X



D5837-1 TUBE #1
(DERIVED FROM AERO DESIGN P/N 69830-13)

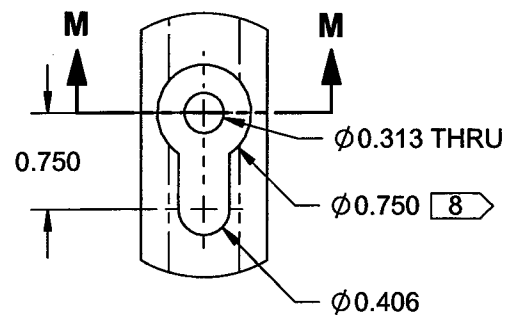
- NOTES:**
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL TUBING, 1.000 WIDTH X 2.000 HEIGHT X 0.125 WALL
PER ASTM A554 OR ASTM A269
REF DART SPEC M304TS2.000X1.000W.125
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: PER DART QSI 044
 - 7) WEIGHT: 7.40 lbs

RELEASED

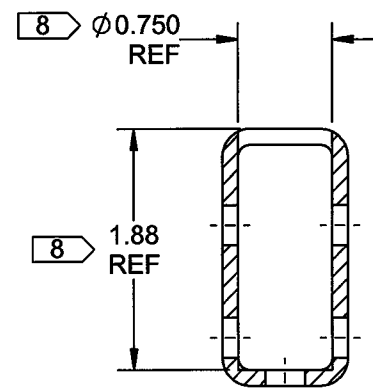
2021 MAY 07 *qf*

APPROVED

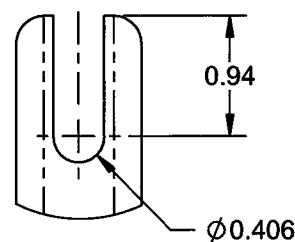
DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	JC	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ZF	DRAWING NO.	REV. B
MFG. APPR.	DD	D5837	SHEET 5 OF 11
APPROVED	CP	TITLE	SCALE
DE APPR.	CP <i>qf</i>	FORWARD BEAM ASSEMBLY	NTS
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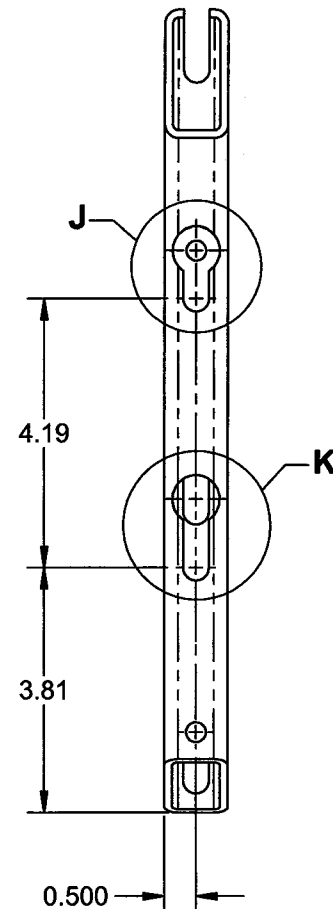
DETAIL J
SCALE 2X
2 PL



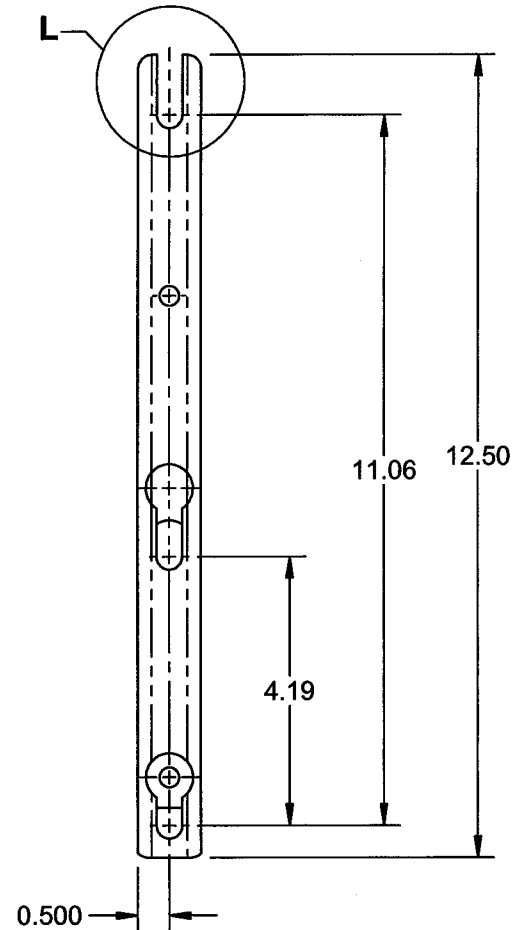
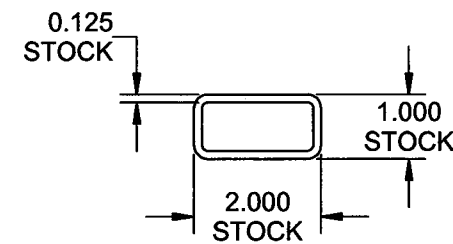
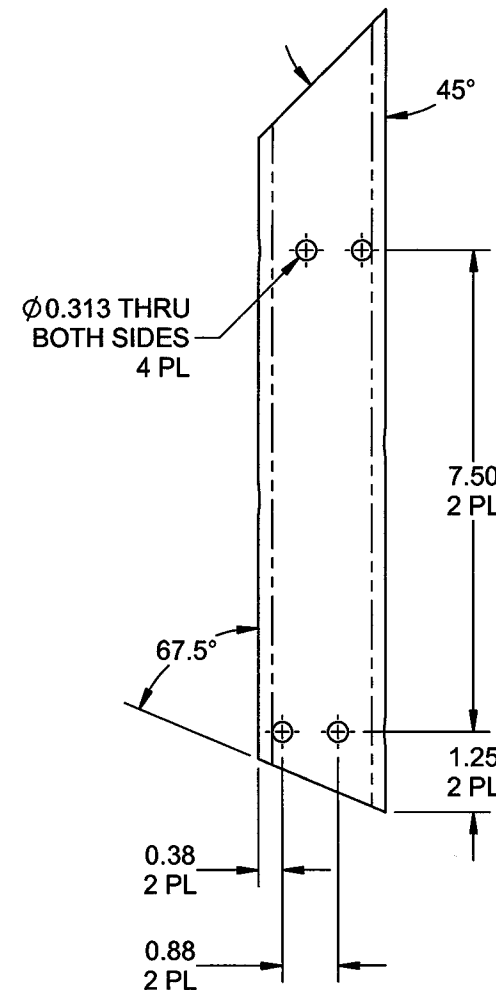
SECTION M-M



DETAIL L
SCALE 2X



DETAIL K
SCALE 2X
2 PL



D5837-3 TUBE #2
(DERIVED FROM AERO DESIGN P/N 69830-14)

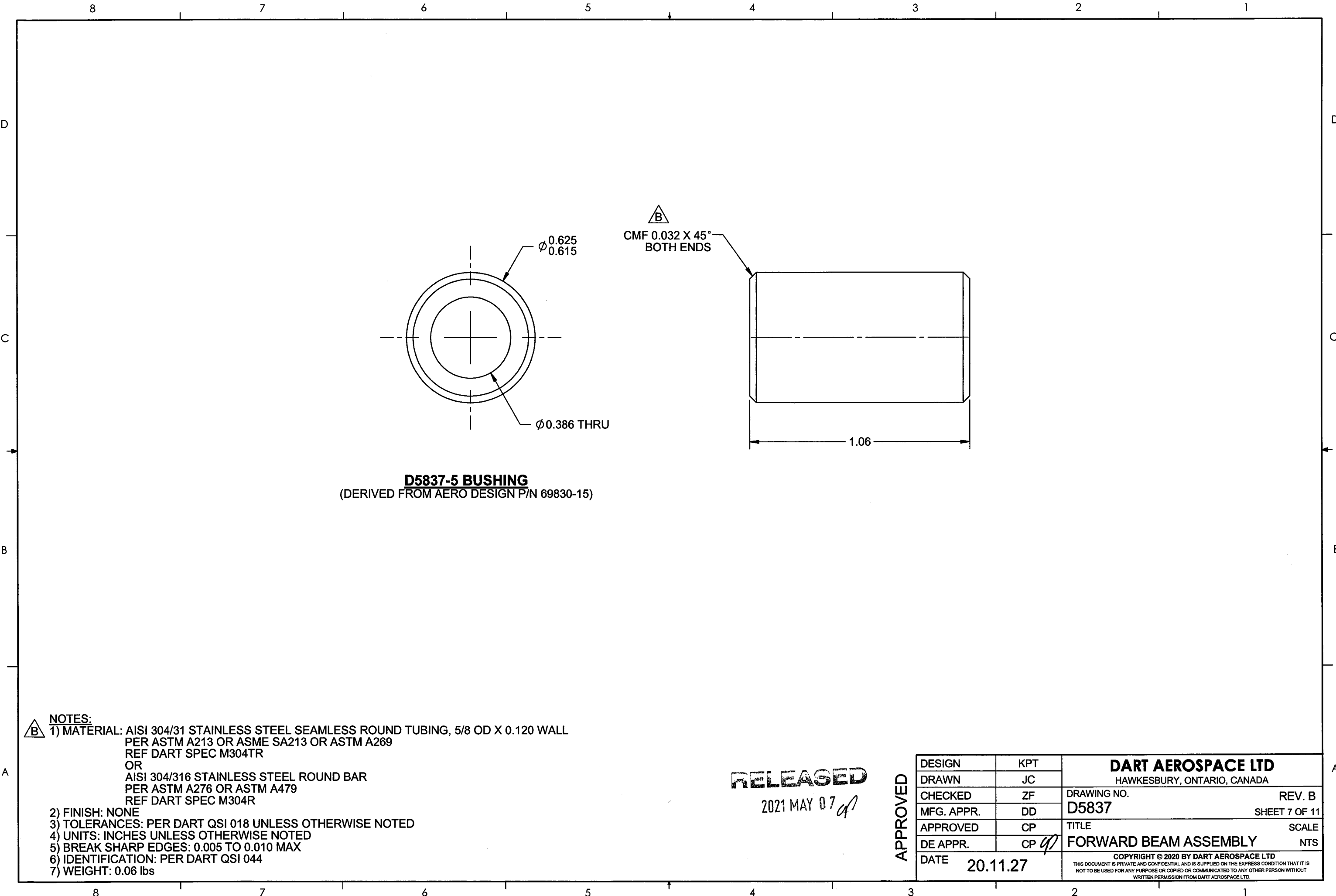
- NOTES:**
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL TUBING, 1.000 WIDTH X 2.000 HEIGHT X 0.125 WALL
PER ASTM A554 OR ASTM A269
REF DART SPEC M304TS2.000X1.000W.125
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: PER DART QSI 044
 - 7) WEIGHT: 1.93 lbs
 - 8) SPOTFACE 0.005-0.010 DEEP FROM INSIDE SURFACE OF TUBE

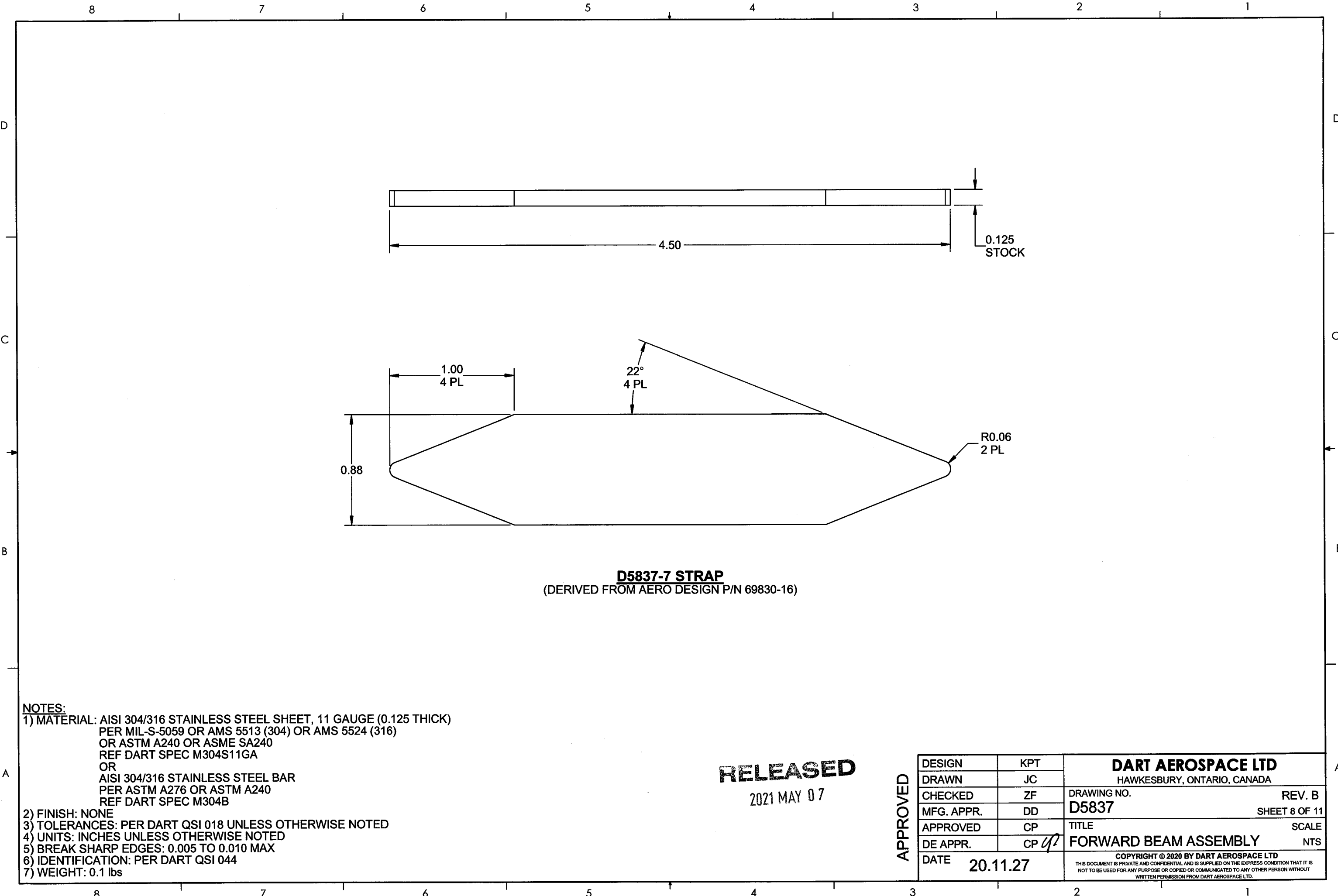
RELEASED

2021 MAY 07

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DESIGN	KPT	DART AEROSPACE LTD	
DRAWN	JC	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ZF	DRAWING NO.	REV. B
MFG. APPR.	DD	D5837	SHEET 6 OF 11
APPROVED	CP	TITLE	SCALE
DE APPR.	CP	FORWARD BEAM ASSEMBLY	NTS
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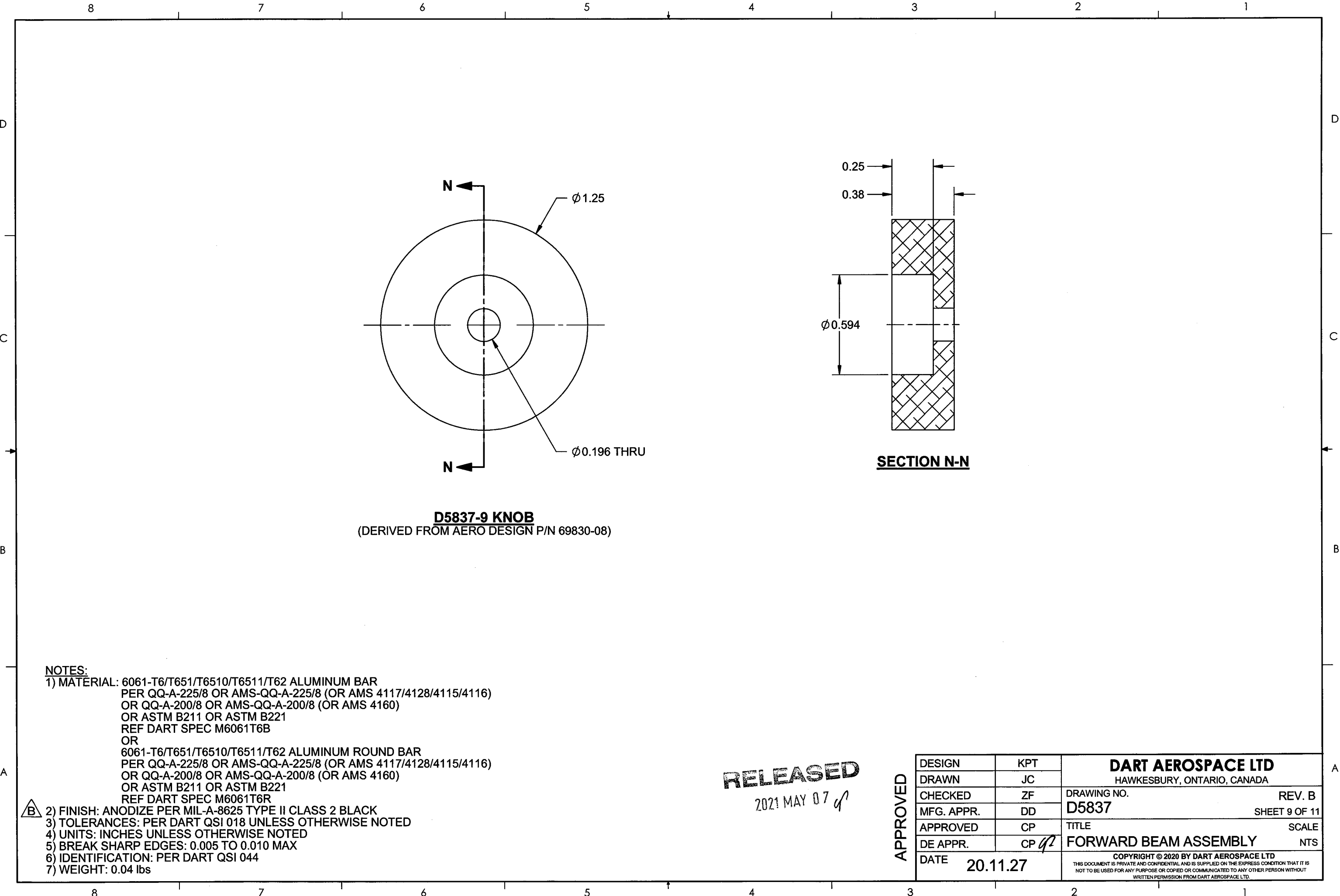


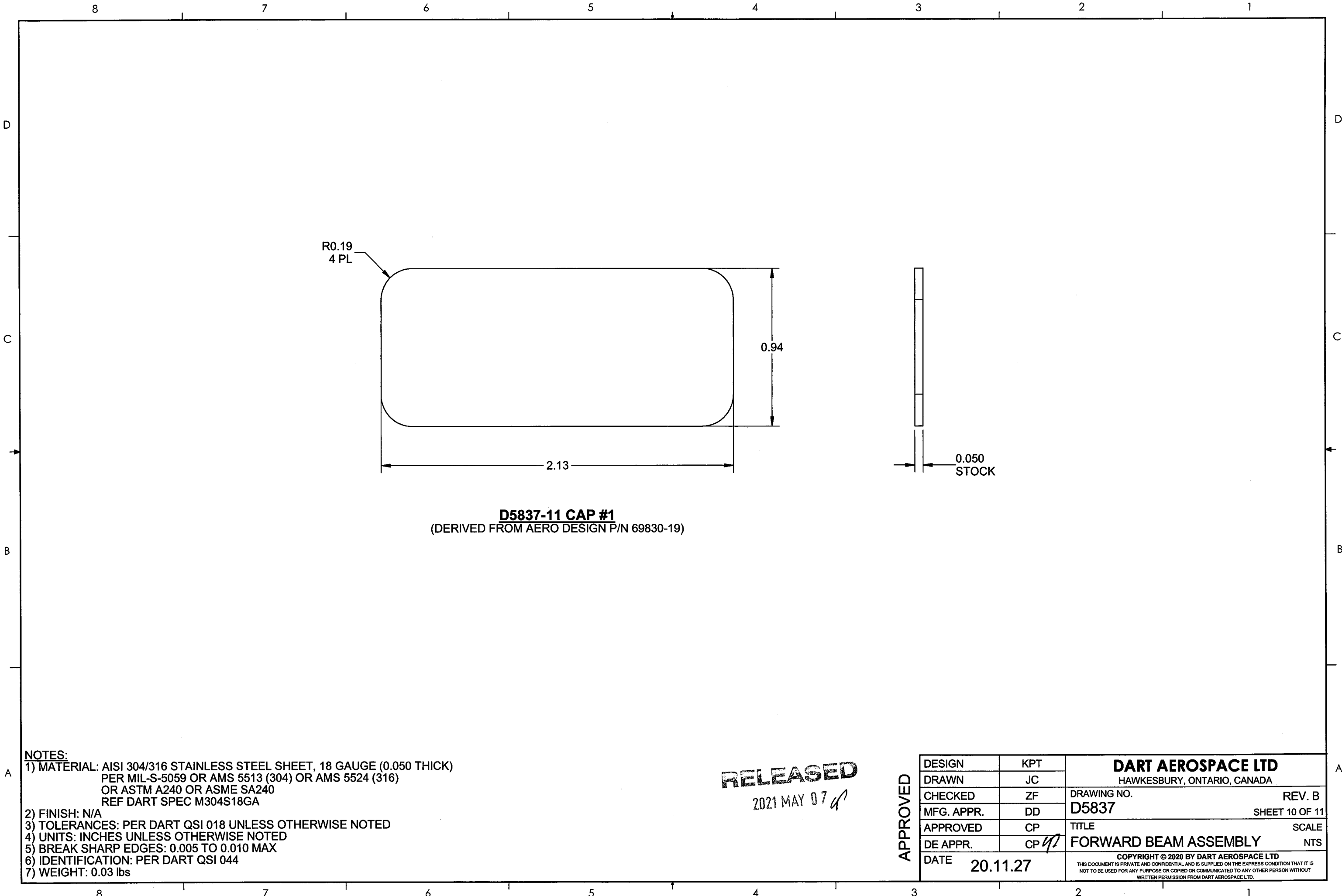
NOTES:
1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 11 GAUGE (0.125 THICK)
PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316)
OR ASTM A240 OR ASME SA240
REF DART SPEC M304S11GA
OR
AISI 304/316 STAINLESS STEEL BAR
PER ASTM A276 OR ASTM A240
REF DART SPEC M304B
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: PER DART QSI 044
7) WEIGHT: 0.1 lbs

RELEASED
2021 MAY 07

APPROVED

DESIGN	KPT	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JC		
CHECKED	ZF	DRAWING NO.	REV. B
MFG. APPR.	DD	D5837	SHEET 8 OF 11
APPROVED	CP	TITLE	SCALE
DE APPR.	CP	FORWARD BEAM ASSEMBLY	NTS
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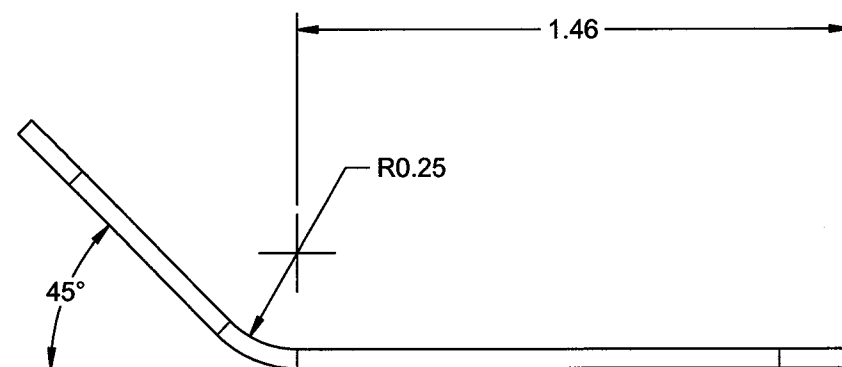
D5837-11 CAP #1
(DERIVED FROM AERO DESIGN P/N 69830-19)

- NOTES:**
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 18 GAUGE (0.050 THICK)
PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316)
OR ASTM A240 OR ASME SA240
REF DART SPEC M304S18GA
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: PER DART QSI 044
 - 7) WEIGHT: 0.03 lbs

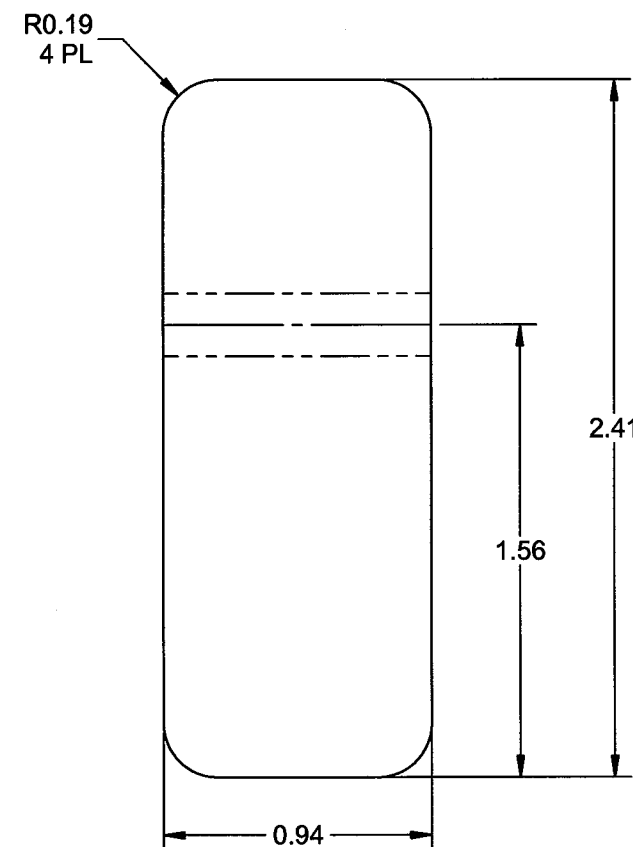
RELEASED
2021 MAY 07 *CP*

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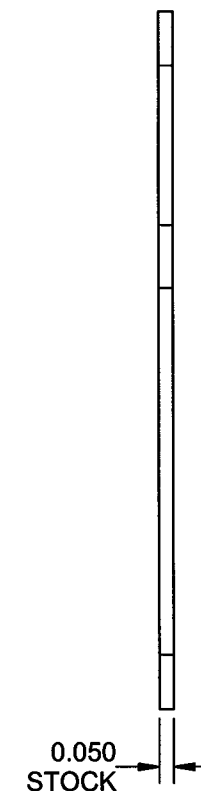
DESIGN	KPT	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JC		
CHECKED	ZF	DRAWING NO.	REV. B
MFG. APPR.	DD	D5837	SHEET 10 OF 11
APPROVED	CP	TITLE	SCALE
DE APPR.	CP <i>CP</i>	FORWARD BEAM ASSEMBLY	NTS
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D5837-13 CAP #2
(DERIVED FROM AERO DESIGN P/N 69830-20)
(MAKE FROM D5837-14F)



D5837-13F FLAT PATTERN



NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 18 GAUGE (0.050 THICK)
PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316)
OR ASTM A240 OR ASME SA240
REF DART SPEC M304S18GA
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER DART QSI 044
- 7) WEIGHT: 0.03 lbs

RELEASED

2021 MAY 07 *dp*

APPROVED

DESIGN	KPT	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JC		
CHECKED	ZF	DRAWING NO. D5837	REV. B
MFG. APPR.	DD		SHEET 11 OF 11
APPROVED	CP	TITLE	SCALE
DE APPR.	CP <i>dp</i>	FORWARD BEAM ASSEMBLY	NTS
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